

1A, V @

y = ar → n-1 y = 1
↳ n = 10 y = 9

f(n) = r^n Au + B

(1, 0) | 1 = r^0 A + B → A + B = 0

f(n) = r^n - 1 → n=0 → 1/r

(r, 9) | 9 = r^1 A + B → rA + B = 9
A = 1
B = -1

y_r (r^n + 1) = u + r → r^n + r = r^n + 1 + ω

u + ur = y_r^ω + y_r^r → y_r^1 + y_r^2

r^n = (r^n)^r + 1 + ω

r^n - 1 = ω → (r-1)(r^n - 1) = ω

r^n = 0 → r = 0
r^n = 1 → r = 1
r^n = 9 → r = 3

(y_r^r)^r + y_r^{(1+r)} y_r^{(1+r)}

y_r^v = 1 - y_r^r

A = (y_r^v)^r + (y_r^r + y_r^v) (y_r^r + y_r^v) → A = (y_r^v)^r + (1 + y_r^v) (r y_r^r + y_r^v)

(y_r^r)^r + (1 + 1 - y_r^r) (r + y_r^r) = (r - (y_r^r)^r) + (y_r^r)^r = r

y_r^{(r - ru + 1)}

+ r y_r^{(1-u)} = ω → y_r^{(1-u)} + r y_r^{(1-u)}

or 1 = 1 - u → u = 0/9

y_r^{(1-u)} = 1/10

y_r^{(ur + ru + ε)} + y_r^{(u-r)} = r

(ur + ru + r) (u-r) = 1

u^r - 1 = 1 → u^r = 1/r

y_r^h = r y_r^h = y_r^h
y_r^h = y_r^h = y_r^h

$$y^{(r-u)} - y^{\frac{1}{(u-r)r}} = r \rightarrow y^{(r-u)} - y^{(r-u)^{-r}} = r \rightarrow y^{r-u} = r \quad (1, \sqrt{0}) \quad (8)$$

$$y^{\frac{1}{r}} = \frac{1}{r} \quad (1/r) \quad (9)$$

$$y^{\frac{1}{\sqrt{r}}} = y^{\frac{r}{r}} = r \quad (10)$$

$$y^{r-u} + r y^{r-u} = r$$

$$i \neq : u^{r-r} = 1 \rightarrow u^{r-r} = r^{\frac{1}{r}} \rightarrow u^{r-r} = r$$

$$(u-r)^r - r = r \rightarrow (u-r)^r = r \rightarrow u-r = \pm \sqrt[r]{r} \quad \left. \begin{array}{l} u = r - \sqrt[r]{r} < r \quad (5) \\ u = r + \sqrt[r]{r} \end{array} \right\}$$

$$y_{u-r} \xrightarrow{u = \sqrt[r]{r} + r} y_{\sqrt[r]{r} + r - r} = \frac{1}{r}$$

$$y_{\frac{r}{r}} = \frac{a}{r} \quad y_{\frac{1}{1}} = 1 \rightarrow \frac{y_{\frac{1}{r}}}{y_{\frac{1}{1}}} \rightarrow \frac{r y_{\frac{1}{r}}}{r y_{\frac{1}{r}} + y_{\frac{1}{r}}} \rightarrow \frac{\frac{a}{r}}{\frac{1+r+a}{r}} \rightarrow \frac{a}{r} = \frac{a}{r} \quad (11)$$

$$y_{\frac{r}{r}} = \frac{1}{r} \rightarrow \frac{1}{r} y_{\frac{r}{r}} = \frac{1}{r} \rightarrow y_{\frac{r}{r}} = \frac{1}{r}$$

$$y_{\frac{r}{r}} \rightarrow \frac{y_{\frac{r}{r}}}{y_{\frac{r}{r}}} = \frac{y_{\frac{r}{r}} + y_{\frac{r}{r}}}{r y_{\frac{r}{r}} + y_{\frac{r}{r}}} \rightarrow \frac{1 + \frac{1}{r}}{r + \frac{1}{r}} \rightarrow \frac{\frac{r+1}{r}}{\frac{r^2+1}{r}} \rightarrow \frac{r+1}{r^2+1} \quad (5)$$

$$(a y^r) u^r + a u + b y^r = 0$$

$$y^r (a+b) = a \quad \frac{a+b}{a} \times y^r = 1 \rightarrow (1 + \frac{b}{a}) y^r = 1 \quad (5)$$

$$y^r (1 + \frac{b}{a}) = 1 \rightarrow 1 + \frac{b}{a} = r \times \frac{b}{a} \rightarrow r \frac{b}{a} = a \rightarrow (r)^{\frac{b}{a}}$$

$$r^{\frac{1}{r} \frac{b}{a}} = (r^{\frac{b}{a}})^{\frac{1}{r}} \rightarrow a^{\frac{1}{r}} = \sqrt[r]{a}$$

$$r) \quad y^{(n-1)r} + y^{(1-n)r} = a \rightarrow y_{1.}^{-(n-1)a} = a$$

$$\rightarrow (1-n)^a = 1^a \rightarrow 1-n=1. \rightarrow n=-1 \quad y_{\mu}^{-n} = r$$